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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/624,895	07/23/2003	Norbert Weber	45407	6751	
1609	7590 05/04/2004		EXAM	INER	
ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P. 1300 19TH STREET, N.W. SUITE 600			BRINSON, I	BRINSON, PATRICK F	
			ART UNIT	PAPER NUMBER	
WASHINGT	WASHINGTON,, DC 20036				
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Please find below and/or attached an Office communication concerning this application or proceeding.

		$\Lambda \Lambda \Lambda$			
	Application No.	Applicant(s)			
	10/624,895	WEBER, NORBERT			
Office Action Summary	Examiner	Art Unit			
	Patrick F. Brinson	3752			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL	V IS SET TO EXPIRE 2 MONT	H(S) FROM			
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be oly within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS from the course the application to become ABANDO	timely filed tays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on				
2a) This action is FINAL . 2b) ⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-14 is/are pending in the application	Claim(s) <u>1-14</u> is/are pending in the application.				
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6) Claim(s) <u>1-7 and 10-14</u> is/are rejected.					
7) Claim(s) 8 and 9 is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	ce Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea 	nts have been received. Its have been received in Applicate the properties of the pr	ation No ived in this National Stage			
* See the attached detailed Office action for a list	t of the certified copies not recei	ved.			
Attachment(s)	_				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summa Paper No(s)/Mail				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 7/23/03. 		Patent Application (PTO-152)			

Application/Control Number: 10/624,895 Page 2

Art Unit: 3752

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

2. Claims 10 and 13 are objected to because of the following informalities: Claim 10 recites "said gas side" without proper antecedent basis. Claim 13 recites the separating element including "a connection part" for closing the fluid connection, however the specification discloses, page 8, last paragraph, that the separating element includes a "stop part" for closing the fluid connection port (40). Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Application/Control Number: 10/624,895 Page 3

Art Unit: 3752

Claim 5 is indefinite, wherein it not made clear if the additional housing is seated on the second housing part or on the first housing part.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. 4,474,215 to Richter et al.

The patent to Richter et al. discloses an accumulator (1) including a housing, with a pair of shells (2 and 3) and a separating element or membrane (12) positioned therebetween dividing the housing into a gas (13) and a fluid (14) chamber. A gas refilling chamber is formed by at least one additional housing part (8) connected with and forming a unit with the accumulator housing and at least one connecting opening (10) in the accumulator housing connecting the gas refilling chamber to the gas chamber, as recited in claim 1. The additional housing part (8) is on an outer peripheral side of the first housing part (2) defining the gas chamber (13), as recited in claim 4. Fig. 2 best illustrates the connection of the first and second housings wherein the second housing part

Application/Control Number: 10/624,895

Art Unit: 3752

- (5) defining the fluid chamber (14) comprising a shoulder (24) on a free edge facing the first housing part (2) on which a free end of the additional housing (8) is seated, as recited in claim 5. First, second and additional housing parts are substantially cylindrical in there areas of connection, and each comprise at least partially arched termination sides on ends remote from the connection, as recited in claim 14.
- 5. Claims 1-4 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. 4,605,428 to **Burton**.

The patent to **Burton** discloses an accumulator (A) including a housing (10), with a pair of shells (12 and 20) and a separating element or membrane (28) positioned therebetween dividing the housing into a gas and a fluid (30) chamber. A gas refilling chamber (32) is formed by at least one additional housing part (18) connected with and forming a unit with the accumulator housing and at least one connecting opening in the central portion of member (36) in the accumulator housing connecting the gas refilling chamber to the gas chamber, as recited in claim 1. The additional housing part (18) is on an outer peripheral side of the first housing part (12), connected by welds (16a), defining the gas chamber (32), as recited in claim 4. **Burton** also discloses the separating member (28) including a stop portion (28b) that closes the connection port (26), as recited in claim 13.

6. Claims 1-4, 6, 7 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. 5,386,925 to Lane.

The patent to Lane discloses an accumulator (100) including a housing (102) and a separating element or membrane (150) located in and dividing the accumulator into a gas (166) and fluid chamber. A gas refilling chamber is formed by at least one additional housing part (102) connected with and forming a unit with the accumulator housing and at least one connecting opening at (140) in the accumulator housing connecting the gas refilling chamber to the gas chamber, as recited in claim 1. The accumulator including first (114) and second (138) housing parts, as recited in claim 2. The additional housing part (102) is on an outer peripheral side of the first housing part (138) defining the gas chamber (166), as recited in claim 4. Fig. 2 illustrates the connection of the first, second and additional housings parts being connected to one another at one common connection point (144), wherein the common connection point is disclosed as preferably being welded, brazed or soldered, as recited in claims 6 and 7. The flexible membrane includes a stop portion for closing the connection port, as recited in claim 13.

7. Claims 1-6 and 10 rejected under 35 U.S.C. 102(b) as being anticipated by U.S. 3,033,552 to **Ogden**.

Application/Control Number: 10/624,895

Page 6

Art Unit: 3752

The patent to **Ogden** discloses an accumulator including a housing with a separating element or membrane (26) located in and dividing the accumulator housing into a gas chamber (38) and a fluid chamber (16). A gas refilling chamber (14) is formed by at least one additional housing part (22) connected with and forming a unit with the accumulator housing and at least one connecting opening (50) in the accumulator housing connecting the gas refilling chamber to the gas chamber, as recited in claim 1. The accumulator includes first (54) and second (32) parts, as recited in claim 2. The additional housing part (22) is on an outer peripheral side of the first housing part (54) defining the gas chamber (38), as recited in claim 4. Fig. 1 illustrates the connection of the first and second housings wherein the second housing part (32) defining the fluid chamber (16) comprising a shoulder on a free edge facing the first housing part (54) on which a free end of the additional housing (22) is seated, as recited in claim 5. First, second and additional housings are connected to one another at free ends by a common connection point with bolts (34), as recited in claim 6. The additional housing part (22) includes both chambers (36 and 58) thereby making their volume approximately twice the volume (56) of the gas side of the accumulator housing, as recited in claim 10.

Application/Control Number: 10/624,895 Page 7

Art Unit: 3752

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Burton**.

The patent to **Burton** does not disclose that the wall thickness of the additional housing part is less than the wall thickness of the first and second housing parts. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to modify the wall thickness of the additional housing part of the **Burton** accumulator to a thickness less than that of the first and second housings because Applicant has not disclosed that a smaller wall thickness for the additional housing part provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with equal thickness as shown by **Burton**. Therefore, it would have been an obvious matter of design choice to modify the wall thickness of **Burton's** additional housing

Art Unit: 3752

part to be greater than that of the first and second housing wall thickness to obtain the invention as specified in claims 11 and 12.

Allowable Subject Matter

9. Claims 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents to Schurter et al., Kirk, Jr., and Paul are pertinent to Applicant's invention in disclosing expansion tanks and accumulators including flexible membranes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Patrick F. Brinson** whose telephone number is (703) 308-0111. The examiner can normally be reached on M-F 7:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Michael Y. Mar** can be reached on (703) 308-2087. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3752

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patrick F. Brinson Primary Examiner

Art Unit 3752

P. F. Brinson April 30, 2004